Translation





PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference D3-A0204P	FOR FURTHER AC	CTION	See Form PCT/IPEA/416				
International application No.	International filing dat	te (day/month/year)	Priority date (day/month/year)				
PCT/JP2003/011299	04 September 20		04 September 2002 (04.09.2002)				
International Patent Classification (IPC) or national classification and IPC C12N 7/00, 15/867							
Applicant DNAVEC RESEARCH INC.							
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total of	4 sheets,	including this cover	sheet.				
3. This report is also accompanied by A							
a. (sent to the applicant and	to the International But	reau) a total of	sheets, as follows:				
and/or sheets con	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) 1 disk , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
This report contains indications relating to the following items:							
Box No. I Basis of the re	Box No. I Basis of the report						
Box No. II Priority	•		·				
	· · · · · · · · · · · · · · · · · · ·						
Box No. IV Lack of unity of invention							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;							
citations and explanations supporting such statement Box No. VI Certain documents cited							
Box No. VI Certain documents cited Box No. VII Certain defects in the international application							
Date of submission of the demand		Date of completion of this report					
17 February 2004 (17.02	2.2004)	09 Se	ptember 2004 (09.09.2004)				
Name and mailing address of the IPEA/JP		Authorized officer					
Faccimile No.		Telephone No					



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

hational application No.
PCT/JP2003/011299

Box No.	Basis of the report				
	gard to the language, this report is based on the insection in the insection is a section of the insection.	nternational application in the language in which it	was filed, unless		
	This report is based on translations from the original which is language of a translation furnished for the				
	international search (under Rules 12.3 and 23.1(b))				
	publication of the international application (under Rule 12.4)			
	international preliminary examination (under	r Rules 55.2 and/or 55.3)			
furnis	egard to the elements of the international applied to the receiving Office in response to an inviter anot annexed to this report):	ication, this report is based on (replacement she tion under Article 14 are referred to in this repor	eets which have been t as "originally filed"		
	The international application as originally filed/fur	nished			
	he description:				
	pages	· · · · · · · · · · · · · · · · · · ·	originally filed/furnished		
1		received by this Authority on			
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	he claims:				
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	nages*	, as amended (together with any sta	itement) under Article 19		
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	he drawings:				
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	sequence listing and/or any related table(s) - see	Supplemental Box Relating to Sequence Listing.			
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3.	The amendments have resulted in the cancellation	of:	•		
	the description, pages				
	the claims, Nos.				
	the drawings, sheets/figs				
1	the sequence listing (specify):				
ļ	any table(s) related to sequence listing (spec.				
4.		he amendments annexed to this report and listed eyond the disclosure as filed, as indicated in the			
[the claims, Nos.		•		
Į	the drawings, sheets/figs				
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1	the sequence listing (specify):				
	any table(s) related to sequence listing (spec	<u>иу</u> у:			
* If iten	4 applies, some or all of those sheets may be mark	ked "superseded."			



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

national application No.

PCT/JP2003/011299

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Su	pplei	menta	Box Relating	to Sequence Listi	ng					
Co	ntini	uation	of Box No. 1, i	item 2:						
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	b.	form	at of material							
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	c.	time	of filing/furnis	hing						
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. St	atement			
	Novelty (N)	Claims	1-4, 7-10	YES
		Claims	5-6	NO
	Inventive step (IS)	Claims		YES
		Claims	1-10	NO .
	Industrial applicability (IA)	Claims	1-10	YES
	· .	Claims		NO

2. Citations and explanations

- Document 1: Ping Yang, et al., "Hemagglutinin Specificity and Neuraminidase Coding Capacity of Neuraminidase-Deficient Influenza Viruses", Virology, 1997, Vol. 229, No. 1, pages 155 to 165
- Document 2: WO 01/92508 A1 (Dnavec Research Inc.), 6
 December 2001
- Document 3: Jiangfeng Sun, et al., "Neuraminidase from a

 Bacterial Source Enhances Both HIV-1-Mediated

 Syncytium Formation and the Virus

 Binding/Entry Process", Virology, 2001, Vol.

 284, No. 1, pages 26 to 36
- Document 4: Valerie Bosch et al., "Inhibition of release of lentivirus particles with incorporated human influenza virus haemagglutinin by binding to sialic acid-containing cellular receptors", Journal of General Virology, 2001, Vol. 82, pages 2485 to 2494
- Document 5: Amy H. Lin, et al., "Use of pseudotyped retroviral vectors to analyze the receptor-binding pocket of hemagglutinin from a pathogenic avian influenza A virus (H7 type)", Virus Research, 26 February 2002, Vol. 83, No. 1-2, pages 43 to 56